

In the Specification

Please replace Tables 3-2, 3-4, 3-6 and 4-2 with pages 1-31 of the Sequence Listing provided herewith. Please add new Table A, which provides a cross-reference between the original numbering of each sequence within Tables 3-2, 3-4, 3-6 and 4-2 and the number of each corresponding entry in the Sequence Listing.

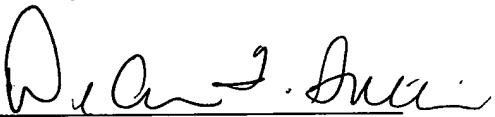
REMARKS

Applicants have submitted on even date herewith a computer readable form of the Sequence Listing (diskette) which is identical in substance to the Sequence Listing submitted herewith.

No new matter has been added to the application. Accordingly, it is respectfully requested that the above amendments be entered.

Please charge any underpayments or credit any overpayments associated with this communication to our Deposit Account No. 12-0080. A duplicate of this letter is enclosed.

Respectfully submitted,

By 
DeAnn F. Smith
Reg. No. 36,683
Attorney for Applicants

LAHIVE & COCKFIELD, LLP
28 State Street
Boston, MA 02109
Tel. (617) 227-7400

Dated: May 18, 2001



Table A

Page 1/2

Sequence listing	Table No.	SEQ ID NO.
1	Table 3-2	Sequence 1240
2	Table 3-2	Sequence 2802
3	Table 3-2	Sequence 2803
4	Table 3-2	Sequence 2804
5	Table 3-2	Sequence 2805
6	Table 3-2	Sequence 4710
7	Table 3-2	Sequence 4711
8	Table 3-2	Sequence 4712
9	Table 3-2	Sequence 4713
10	Table 3-2	Sequence 4714
11	Table 3-2	Sequence 4715
12	Table 3-2	Sequence 4716
13	Table 3-2	Sequence 4717
14	Table 3-2	Sequence 4718
15	Table 3-2	Sequence 4719
16	Table 3-2	Sequence 4720
17	Table 3-2	Sequence 4721
18	Table 3-2	Sequence 4722
19	Table 3-2	Sequence 4723
20	Table 3-2	Sequence 6889
21	Table 3-2	Sequence 6890
22	Table 3-2	Sequence 6891
23	Table 3-2	Sequence 6892
24	Table 3-2	Sequence 6893
25	Table 3-2	Sequence 6894
26	Table 3-2	Sequence 6895
27	Table 3-2	Sequence 6896
28	Table 3-2	Sequence 6897
29	Table 3-4	Sequence 10047
30	Table 3-4	Sequence 10048
31	Table 3-4	Sequence 10049
32	Table 3-4	Sequence 10050
33	Table 3-4	Sequence 10051
34	Table 3-4	Sequence 10052
35	Table 3-4	Sequence 10053
36	Table 3-4	Sequence 10054
37	Table 3-6	Sequence 11676
38	Table 3-6	Sequence 11677
39	Table 3-6	Sequence 11678
40	Table 3-6	Sequence 11679
41	Table 3-6	Sequence 11680
42	Table 3-6	Sequence 13322
43	Table 3-6	Sequence 13323
44	Table 3-6	Sequence 13324
45	Table 3-6	Sequence 13325
46	Table 3-6	Sequence 13326
47	Table 3-6	Sequence 13327
48	Table 3-6	Sequence 13328
49	Table 3-6	Sequence 15908
50	Table 3-6	Sequence 15909

Table A

Page 2/2

51	Table 3-6	Sequence 15910
52	Table 3-6	Sequence 15911
53	Table 4-2	Sequence 1949
54	Table 4-2	Sequence 1950
55	Table 4-2	Sequence 1951
56	Table 4-2	Sequence 1952
57	Table 4-2	Sequence 1953
58	Table 4-2	Sequence 1954
59	Table 4-2	Sequence 1955
60	Table 4-2	Sequence 1956
61	Table 4-2	Sequence 1957
62	Table 4-2	Sequence 1958
63	Table 4-2	Sequence 1959
64	Table 4-2	Sequence 1960
65	Table 4-2	Sequence 1961
66	Table 4-2	Sequence 1962
67	Table 4-2	Sequence 1963
68	Table 4-2	Sequence 1964
69	Table 4-2	Sequence 3723
70	Table 4-2	Sequence 3724
71	Table 4-2	Sequence 3725
72	Table 4-2	Sequence 3726
73	Table 4-2	Sequence 3727
74	Table 4-2	Sequence 3728
75	Table 4-2	Sequence 3729
76	Table 4-2	Sequence 3730
77	Table 4-2	Sequence 3731
78	Table 4-2	Sequence 3732
79	Table 4-2	Sequence 3733
80	Table 4-2	Sequence 4144
81	Table 4-2	Sequence 4145
82	Table 4-2	Sequence 4146
83	Table 4-2	Sequence 4147
84	Table 4-2	Sequence 4148
85	Table 4-2	Sequence 4149
86	Table 4-2	Sequence 4150
87	Table 4-2	Sequence 4151
88	Table 4-2	Sequence 4152
89	Table 4-2	Sequence 5614
90	Table 4-2	Sequence 5865
91	Table 4-2	Sequence 7622
92	Table 4-2	Sequence 7623
93	Table 4-2	Sequence 7624
94	Table 4-2	Sequence 7625
95	Table 4-2	Sequence 7626
96	Table 4-2	Sequence 7627
97	Table 4-2	Sequence 7628
98	Table 4-2	Sequence 7629
99	Table 4-2	Sequence 7630
100	Table 4-2	Sequence 7631
101	Table 4-2	Sequence 7632